



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

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DATA MATRIX

Date May 23, 2013		EPA Reg No./File Symbol 71910 - 2		Page 1 of 5	
Applicant's/Registrant's Name & Address The Schawbel Corporation, c/o Scientific Coordination, Inc., 4629 Cherry Valley Drive, Rockville, MD 20853		Product ThermaCELL® Mosquito Repellent			
Ingredient Pynamin Forte [d-cis/trans allethrin] (CAS No. 231937-89-6)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Endura S.p.A.	PER	
			Endura S.p.A.	PER	
			Endura S.p.A.	PER	
			Endura S.p.A.	PER	
			Endura S.p.A.	PER	
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			Endura S.p.A.	PER	
Signature <i>Timothy H. Dickens</i>			Name and Title Timothy H. Dickens, Ph.D., Authorized Agent		Date May 23, 2013

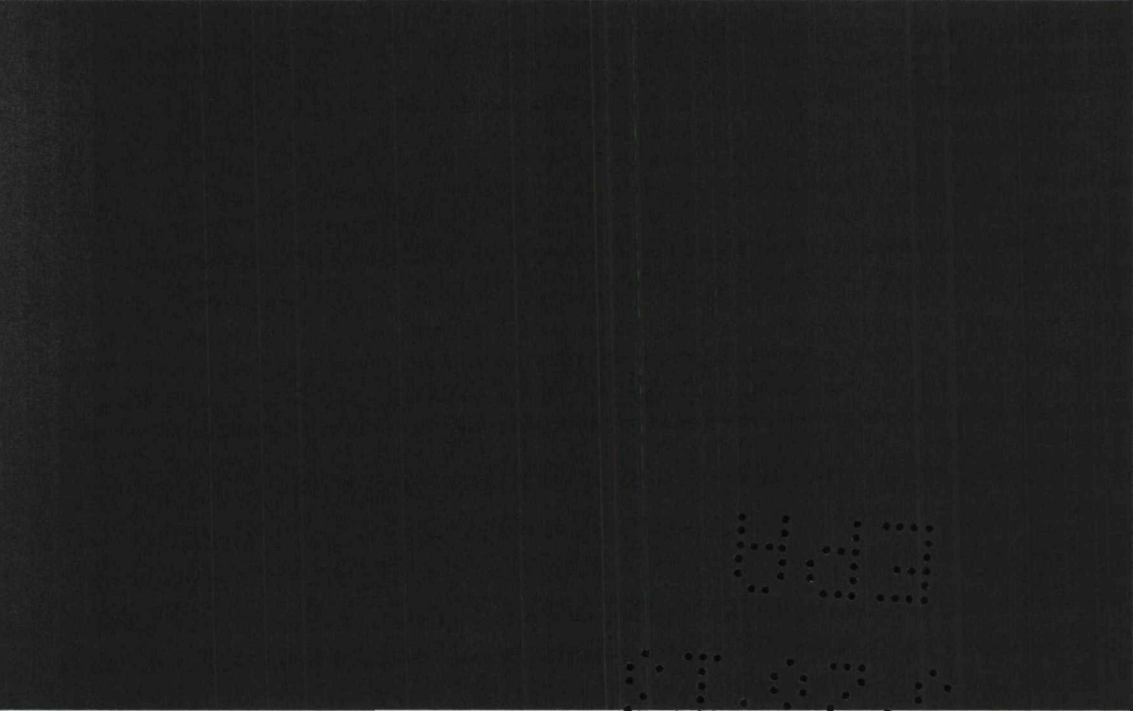
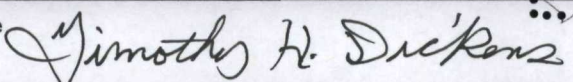


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			Endura S.p.A.	PER	
			Sumitomo	OLD	
			Sumitomo	OLD	
			Sumitomo	OLD	
			Sumitomo	OLD	
			Sumitomo	OLD	
			Sumitomo	OLD	
			Endura S.p.A.	PER	
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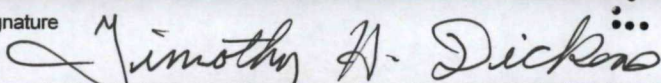


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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Chemistry 830.1550	Product Identity and Composition	Volume 1	Endura S.p.A.	PER	
830.1600	Description of Materials Used to Produce the Product	Volume 1	Endura S.p.A.	PER	
830.1620	Description of Production Process	Volume 1	Endura S.p.A.	PER	
830.1650	Description of Formulation Process				See Endnote 1
830.1670	Discussion of Formation of Impurities	Volume 1	Endura S.p.A.	PER	
830.1700	Preliminary Analysis	Volume 2	Endura S.p.A.	PER	
830.1750	Certified Limits	Volume 1	Endura S.p.A.	PER	
830.1800	Enforcement Analytical Method	Volume 1 & 2	Endura S.p.A.	PER	
830.6302	Color	Volume 3 & 4	Endura S.p.A.	PER	
830.6303	Physical State	Volume 3 & 4	Endura S.p.A.	PER	
830.6304	Odor	Volume 3 & 4	Endura S.p.A.	PER	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metalloids	Volume 4, 5, 6	Endura S.p.A.	PER	Waiver (2)
830.6314	Oxidation/Reduction: Chemical Incompatibility	Volume 6	Endura S.p.A.	PER	Waiver (3)
830.6315	Flammability	Volume 4	Endura S.p.A.	PER	
830.6316	Explosibility	Volume 4	Endura S.p.A.	PER	
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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6317	Storage Stability				PRN 92-5 (4)
830.6319	Miscibility				Not required (5)
830.6320	Corrosion Characteristics				PRN 92-5 (4)
830.6321	Dielectric Breakdown Voltage				Not required (6)
830.7000	pH	Volume 6	Endura S.p.A.	PER	
830.7050	UV/Visible Absorption	Volume 3	Endura S.p.A.	PER	
830.7100	Viscosity	Volume 4	Endura S.p.A.	PER	
830.7200	Melting Point/Melting Range	Volume 3	Endura S.p.A.	PER	
830.7220	Boiling Point/Boiling Range	Volume 3	Endura S.p.A.	PER	
830.7300	Density/Relative Density/Bulk Density	Volume 3	Endura S.p.A.	PER	
830.7370	Dissociation Constants in Water	Volume 6	Endura S.p.A.	PER	Waiver (7)
830.7520	Particle size, fiber length, diameter distribution	Volume 6	Endura S.p.A.	PER	Waiver (8)
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	Volume 2	Endura S.p.A.	PER	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
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830.7840	Water Solubility: Column Elution Method; Shake Flask Method	Volume 3	Endura S.p.A.	PER	
830.7860	Water Solubility, Generator Column Method				See 830.7840
830.7950	Vapor Pressure	Volume 3	Endura S.p.A.	PER	
Product Specific Data Requirements - d-Allethrin Technical Grade Insecticide					
870.1100	Acute Oral Toxicity: Rat	63233, 122924	Sumitomo	OLD	
870.1200	Acute Dermal Toxicity: Rat	63235, 90515	Sumitomo	OLD	
870.1300	Acute Inhalation Toxicity: Rat	90520	Sumitomo	OLD	
870.2400	Primary Eye Irritation: Rabbit	90523	Sumitomo	OLD	
870.2500	Primary Dermal Irritation	90523	Sumitomo	OLD	
870.2600	Dermal Sensitization	90524	Sumitomo	OLD	
Generic Data Requirements					
Nontarget Plant Protection Data Requirements (Conventional Chemical) - d-Allethrin Technical Grade Insecticide					
850.4100	Terrestrial Plant Toxicity (Seedling Emergence)	Volume 7	Endura S.p.A.	PER	Waiver
850.4150	Terrestrial plant toxicity, Tier 1 (vegetative vigor)	Volume 8	Endura S.p.A.	PER	Waiver
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Terrestrial and Aquatic Nontarget Organisms Data Requirements (Conventional Chemical) - d-Allethrin Technical Grade Insecticide					
850.3030	Honey bee toxicity of residues on foliage	Volume 9	Endura S.p.A.	PER	Waiver
Toxicology Data Requirements (Conventional Chemical) - d-Allethrin Technical Grade Insecticide					
870.3100	Repeated Dose 90-Day Oral Toxicity Study in Rats.	Volume 1	Endura S.p.A.	PER	
	Bacterial Reverse Mutation Test of d-Allethrin using Salmonella Typhimurium.	Volume 2	Endura S.p.A.	PER	
	Allethrin Chromosome Aberrations in Chinese Hamster Ovary Cells In Vitro.	Volume 3	Endura S.p.A.	PER	
	Allethrin Mutation in L5178Y TK+/- Mouse Lymphoma Cells (Fluctuation Method).	Volume 4	Endura S.p.A.	PER	
870.4200	d-Allethrin Waiver Request for Mouse Oncogenicity Study.	Volume 5	Endura S.p.A.	PER	Waiver
870.5395	d-Allethrin Waiver Request for Mammalian Erythrocyte Micronucleus Test.	Volume 6	Endura S.p.A.	PER	Waiver
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Endnotes for Data Matrix for d-Allethrin Technical Grade Insecticide Page 1 of 1 1 830.1650 - These data are not required for the registration of a technical grade active ingredient product. See 830.1620 for production process information. 2 830.6313 - d-Allethrin technical is not packaged in metal containers, nor is d-Allethrin technical expected to come into contact with metals or metal ions during its storage or use. Therefore, a waiver is requested for the requirement for the stability to metal/metal ion part of this study. Stability data are found in Volume 5 of this submission. 3 830.6314 - Oxidation/reduction data are required to determine if hazardous reactions occur from contact of the chemical with common oxidizing and reducing agents, common fire extinguishing agents and common solvents. Sufficient information is available on the low reactivity of d-allethrin to these agents. There were no reactions when d-Allethrin was mixed with water, n-octanol, methanol, or n-hexane (Volume 2 of this submission). As with most organic compounds, d-Allethrin is not expected to be stable in the presence of potassium permanganate. The Material Safety Data Sheet (Appendix 1) notes that d-Allethrin is compatible with common fire extinguishing materials such as carbon dioxide, foam, powder, and nebulized water. There are no safety concerns for other extinguishing agents. Therefore a waiver from this data requirement is requested. 4 830.6317, 830.6320 - Per PR Notice 92-5, storage stability and corrosion characteristics data are not required to be submitted unless specifically requested by the Agency. 5 830.6319 - These data are required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. D-Allethrin technical is a technical material and therefore this data requirement is not applicable. 6 830.6321 - These data are required if the product is an end-use product. This data requirement is not applicable to d-Allethrin technical. 7 830.7370 - d-Allethrin has no acidic or basic functional groups that would dissociate in the pH range of 4 to 9, therefore this data requirement is not applicable to d-allethrin and a waiver is requested. 8 830.7520 - d-Allethrin is not a fibrous material and is it not water-insoluble, therefore this data requirement is not applicable and a waiver is requested.					
Signature Timothy H. Dickens		Name and Title Timothy H. Dickens, Ph.D., Authorized Agent		Date May 23, 2013	